Listing of claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:

(a) a nucleotide sequence encoding the hPSP polypeptide having the amino acid sequence at positions –18 to +231 in SEQ ID NO:2;

(b) a nucleotide sequence encoding the hPSP polypeptide having the amino acid sequence at positions –17 to +231 in SEQ ID NO:2;

(c) a nucleotide sequence encoding the predicted mature hPSP polypeptide having the amino acid sequence at positions +1 to +231 in SEQ ID NO:2;

(d) a nucleotide sequence encoding the hPSP polypeptide having the complete amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97811;

(e) a nucleotide sequence encoding the hPSP polypeptide having the complete amino acid sequence excepting the N-terminal methionine encoded by the cDNA clone contained in ATCC Deposit No. 97811;

(f) a nucleotide sequence encoding the mature hPSP polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97811; and

(g) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b), (c), (d), (e) or (f) above.

2. (Original) The nucleic acid molecule of claim 1 wherein said polynucleotide has the complete nucleotide sequence in Figure 1 (SEQ ID NO:1).

3. (Original) The nucleic acid molecule of claim 1 wherein said polynucleotide has the nucleotide sequence in SEQ ID NO:1 encoding the hPSP polypeptide having the amino acid sequence in positions –17 to +231 SEQ ID NO:2.

4. (Previously Amended) The nucleic acid molecule of claim 1 wherein said polynucleotide has the nucleotide sequence in SEQ ID NO:1 encoding the mature form of the hPSP polypeptide having the amino acid sequence from amino acid residue 1 to amino acid residue 231 of SEQ ID NO:2.

5. (Previously Amended) An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:

(a) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence at positions n-231 in SEQ ID NO:2, where n is an integer except zero in the range of -17 to +26.

(b) a nucleotide sequence encoding a polypeptide having the amino acid sequence of residues 1-m of SEQ ID NO:2, where m is an integer in the range of +220 to +231;

(c) a nucleotide sequence encoding a polypeptide having the amino acid sequence of residues n-m of SEQ ID NO:2, where n and m are integers as defined respectively in (a) and (b) above; and

(d) a nucleotide sequence encoding a polypeptide consisting of a portion of the complete hPSP amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97811 wherein said portion excludes from 1 to 43 amino acids from the amino terminus of said complete amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97811;

(e) a nucleotide sequence encoding a polypeptide consisting of a portion of the complete hPSP amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97811 wherein said portion excludes or from 1 to 11 amino acids from the carboxy terminus of said complete amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97811; and

(f) a nucleotide sequence encoding a polypeptide comprising a portion of the complete hPSP amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97811 wherein said portion include a combination of any of the amino terminal and carboxy terminal deletions in (d) and (e),

above.

6. (Original) The nucleic acid molecule of claim 1 wherein said polynucleotide has the complete nucleotide sequence of the cDNA clone contained in ATCC Deposit No. 97811.

7. (Original) The nucleic acid molecule of claim 1 wherein said polynucleotide has the nucleotide sequence encoding the hPSP polypeptide having the complete amino acid sequence except the N-terminal amino acid encoded by the cDNA clone contained in ATCC Deposit No. 97811.

8. (Original) The nucleic acid molecule of claim 1 wherein said polynucleotide has the nucleotide sequence encoding the mature form of the hPSP polypeptide having the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97811.

9. (Previously Amended) An isolated nucleic acid molecule comprising a nucleic acid sequence which encodes an epitope-bearing portion of an hPSP polypeptide selected from the group consisting of: a polypeptide comprising amino acid residues from Ser50 to Leu66 of SEQ ID NO:2; a polypeptide comprising amino acid residues from Glu97 to Leu105 of SEQ ID NO:2; a polypeptide comprising amino acid residues from Glu141 to Gln148 of SEQ ID NO:2; and a polypeptide comprising amino acid residues from Asp219 to Leu227 of SEQ ID NO:2.

10. (Original) A method for making a recombinant vector comprising inserting an isolated nucleic acid molecule of claim 1 into a vector.

11. (Original) A recombinant vector produced by the method of claim 10.

12. (Original) A method for making a recombinant host cell comprising introducing the recombinant vector of claim 11 into a host cell.

13. (Original) A recombinant host cell produced by the method of claim 12.

14. (Currently Amended) A ~~recombinant~~ method using recombinant techniques for producing a hPSP polypeptide, comprising culturing the recombinant host cell of claim 13 under conditions such that said polypeptide is expressed and recovering said polypeptide.

15-17. (Cancelled).

18. (Original) An isolated nucleic acid molecule comprising a polynucleotide having a sequence at least 95% identical to a sequence selected from the group consisting of:

(a) a portion of the sequence shown in SEQ ID NO:1, wherein said portion comprises at least 30 contiguous nucleotides from nucleotide 48 to nucleotide 793 but wherein said portion does not have the sequence of any one of SEQ ID NOS:10-18 or any subfragments thereof; and

(b) a nucleotide sequence complementary to any of the nucleotide sequences in (a) above.

19. (Previously Added and Previously Amended) An isolated polynucleotide comprising a nucleic acid sequence selected from the group consisting of:

(a) a nucleic acid sequence encoding an amino acid sequence at least 95% identical to a polypeptide of amino acids +1 to +231 of SEQ ID NO:2;

(b) a nucleic acid sequence encoding a polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97811; and

(c) a nucleic acid sequence encoding a polypeptide of at least 30 contiguous amino acids of SEQ ID NO:2.

20. (Previously Added) The isolated polynucleotide of claim 19, wherein said nucleic acid sequence is (a).

21. (Previously Added) The isolated polynucleotide of claim 20, wherein said amino acid sequence is SEQ ID NO:2.

22. (Previously Added) The isolated polynucleotide of claim 20, wherein said nucleic acid sequence is SEQ ID NO:1.

23. (Previously Added) The isolated polynucleotide of claim 19, wherein said nucleic acid sequence is (b).

24. (Previously Added) The isolated polynucleotide of claim 23, wherein said nucleic acid sequence encodes a mature polypeptide.

25. (Previously Added) The isolated polynucleotide of claim 23, wherein said nucleic acid sequence is identical to the human cDNA contained in ATCC Deposit No. 97811.

26. (Previously Added) The isolated polynucleotide of claim 19, wherein said nucleic acid sequence is (c).

27. (Previously Added) The isolated polynucleotide of claim 26, wherein said nucleic acid sequence encodes at least 50 contiguous amino acids of SEQ ID NO:2.

28. (Previously Added) An isolated polynucleotide complementary to the polynucleotide of claim 19.

29. (Previously Added) The isolated polynucleotide of claim 19, further comprising a heterologous polynucleotide.

30. (Previously Added) The isolated polynucleotide of claim 29, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

31. (Previously Added) A method for making a recombinant vector comprising inserting the isolated nucleic acid molecule of claim 19 into a vector.

32. (Previously Added) A vector comprising the polynucleotide of claim 19.

33. (Previously Added) A host cell comprising the polynucleotide of claim 19, operably associated with a heterologous regulatory sequence.

34. (Previously Added) A method for producing a polypeptide, comprising:

(a) culturing a host cell under conditions suitable to produce a polypeptide encoded by the polynucleotide of claim 19; and

(b) recovering the polypeptide from the cell culture.

35. (Cancelled)

36. (Previously Added) A composition comprising the isolated polynucleotide of claim 19.